

FIGURE 1

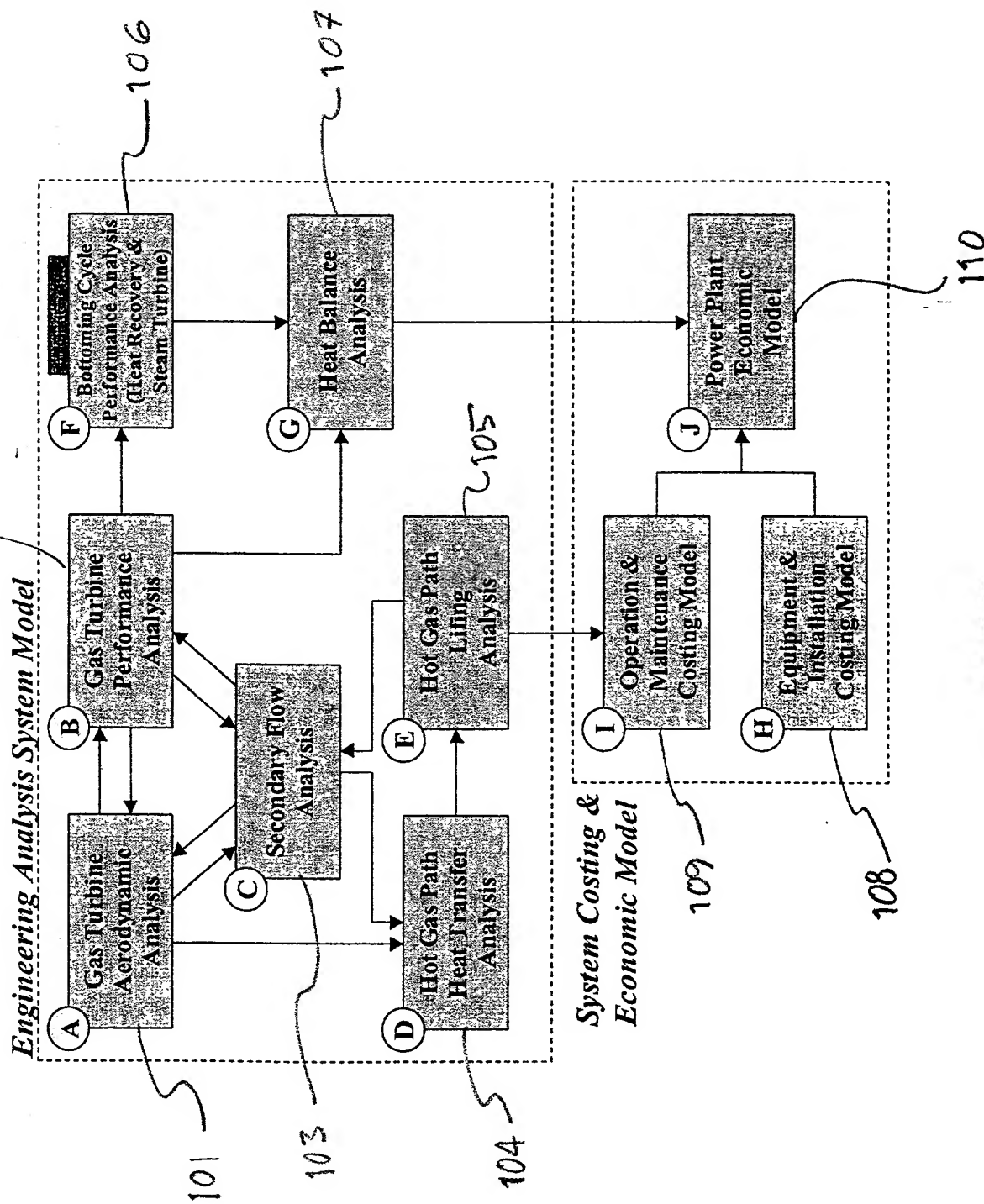


FIGURE 2

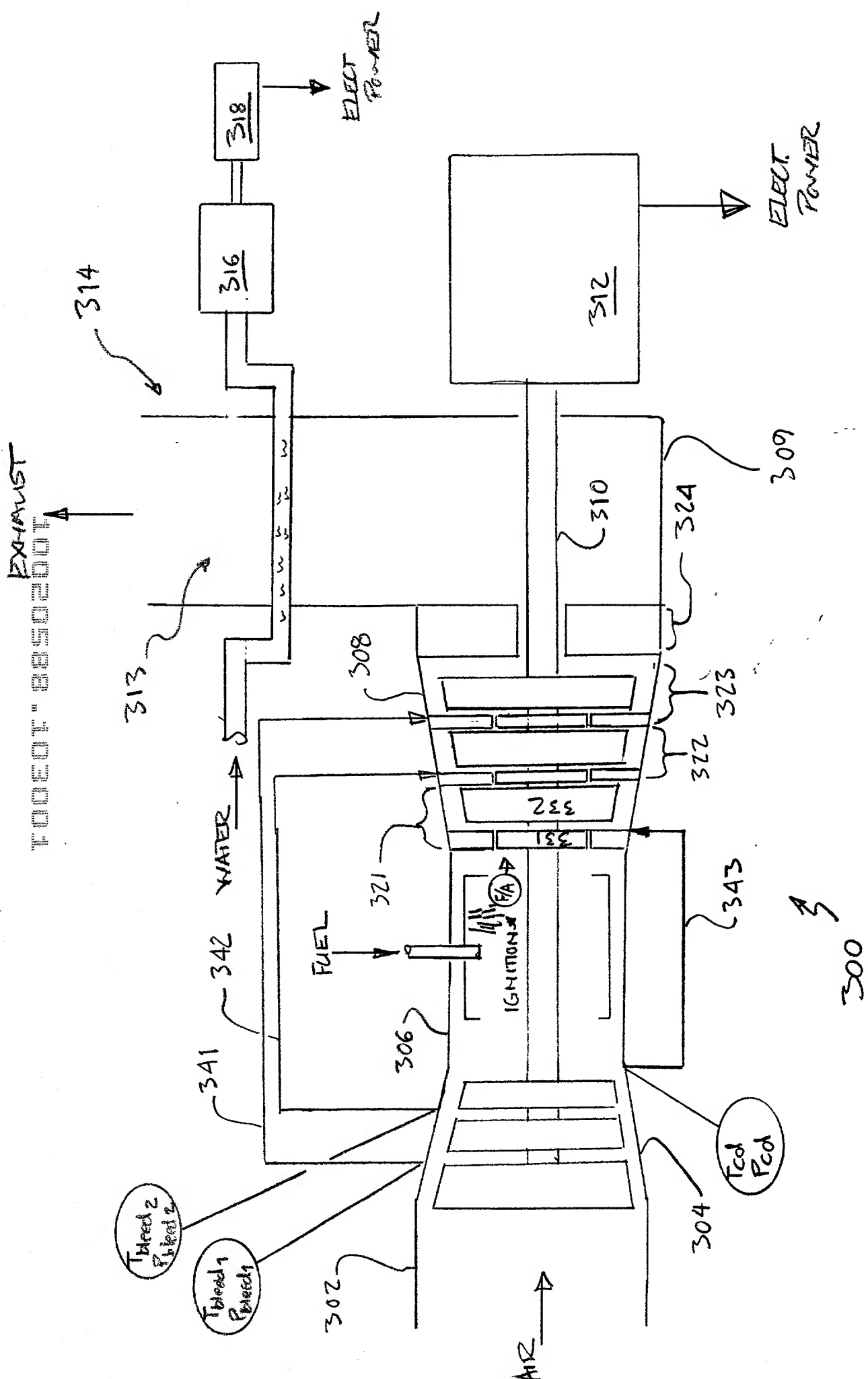
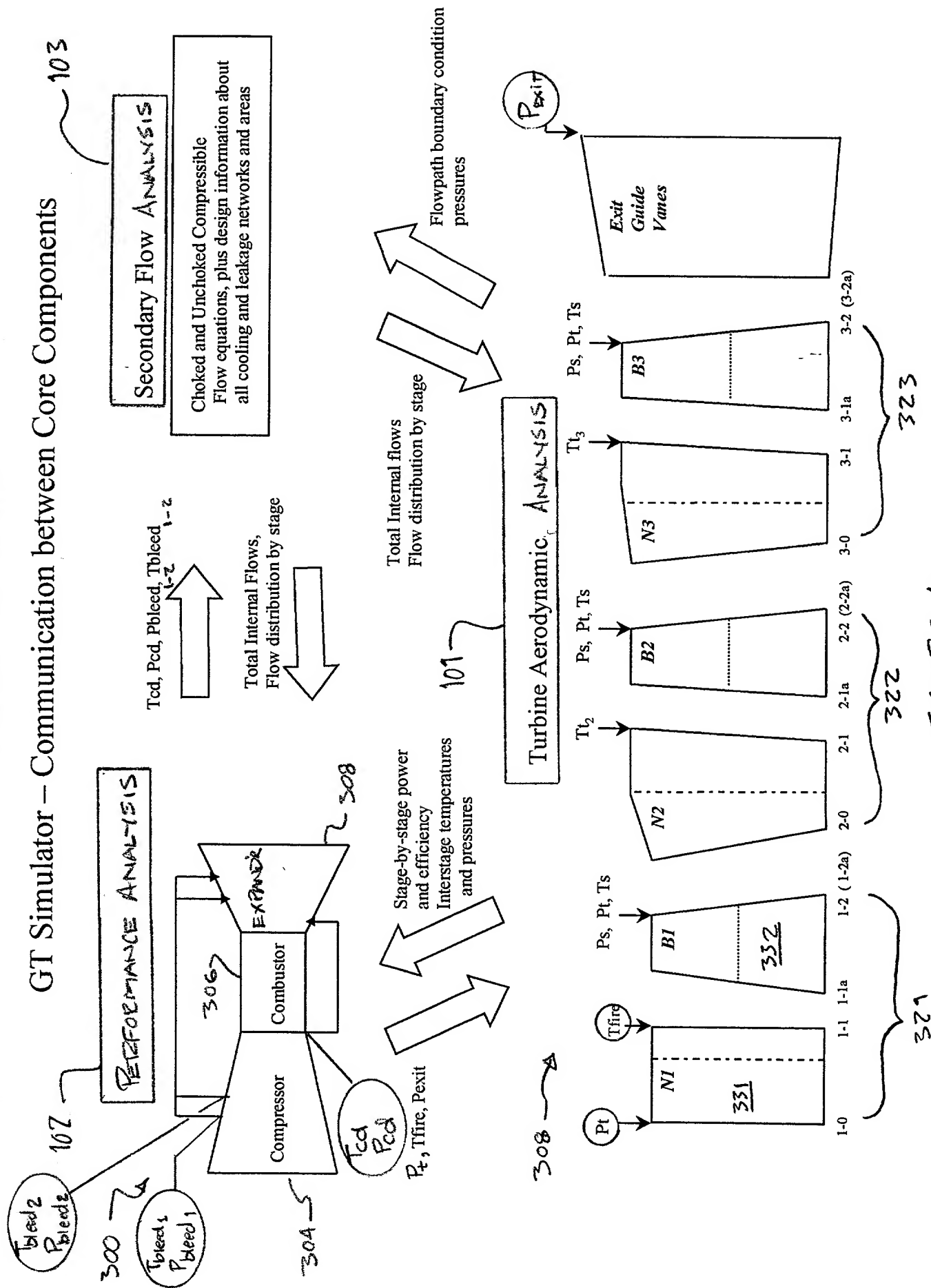


FIGURE 3

GT Simulator - Communication between Core Components



INNER LOOP
START.

$i = 1$

PERF. MODULE
DETERMINES:
 P_{ti} , T_{firei} , P_{exiti}

PERF. MODULE

X-FER P_{ti} , T_{firei}
& P_{exiti} TO
AERO. MODULE

AERO. MODULE
DETERMINES:
INTERSTAGE VAR-
IABLES, STAGE
POWERS & STAGE
EFFICIENCIES

AERO. MODULE

X-FER INTER-
STAGE VARIABLES,
ETC, TO PERF.
MODULE

PERF. MODULE
UPDATES MODEL
& DETERMINES:
 P_{ti+1} , $T_{firei+1}$, $P_{exiti+1}$

COMPARE:
 $P_{ti+1} \rightarrow P_{ti}$
 $T_{firei+1} \rightarrow T_{firei}$
 $P_{exiti+1} \rightarrow P_{exiti}$

YES

ARE
VALUES
W/I SPECIFIED
ERROR%
?

NO

PERF. MODULE &
AERO. MODULE
DETERMINE PERF.
PARAMETERS &
PROVIDE TO OTHER
ANALYSIS MODULES



ROUTINE COMPLETE

$i = i + 1$

520

FIG 5

500

502

504

506

508

510

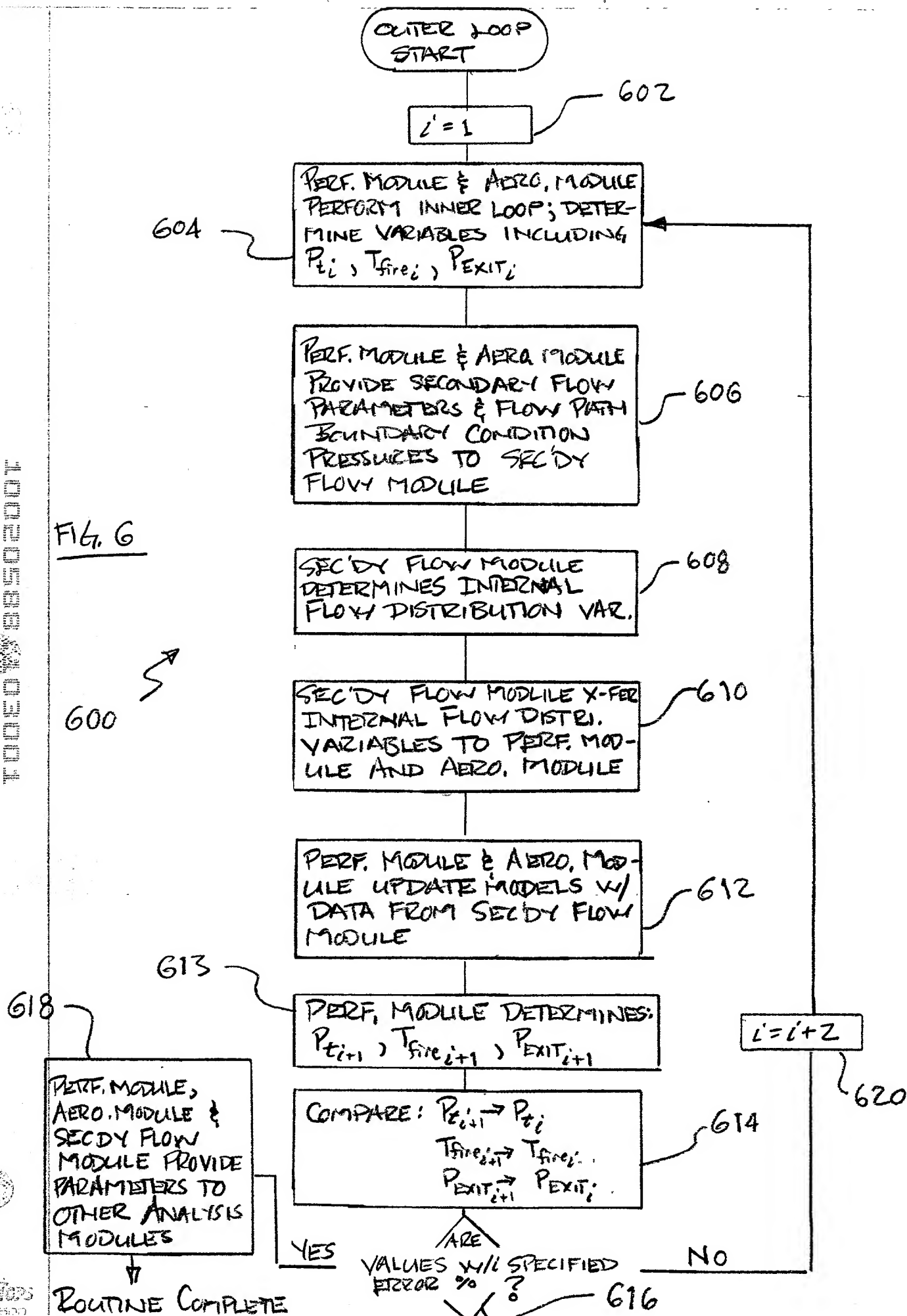
512

514

518

516

FIG. 6



New Screen Print for PDF File: Figure #7

702 707 705 703

704

706

708

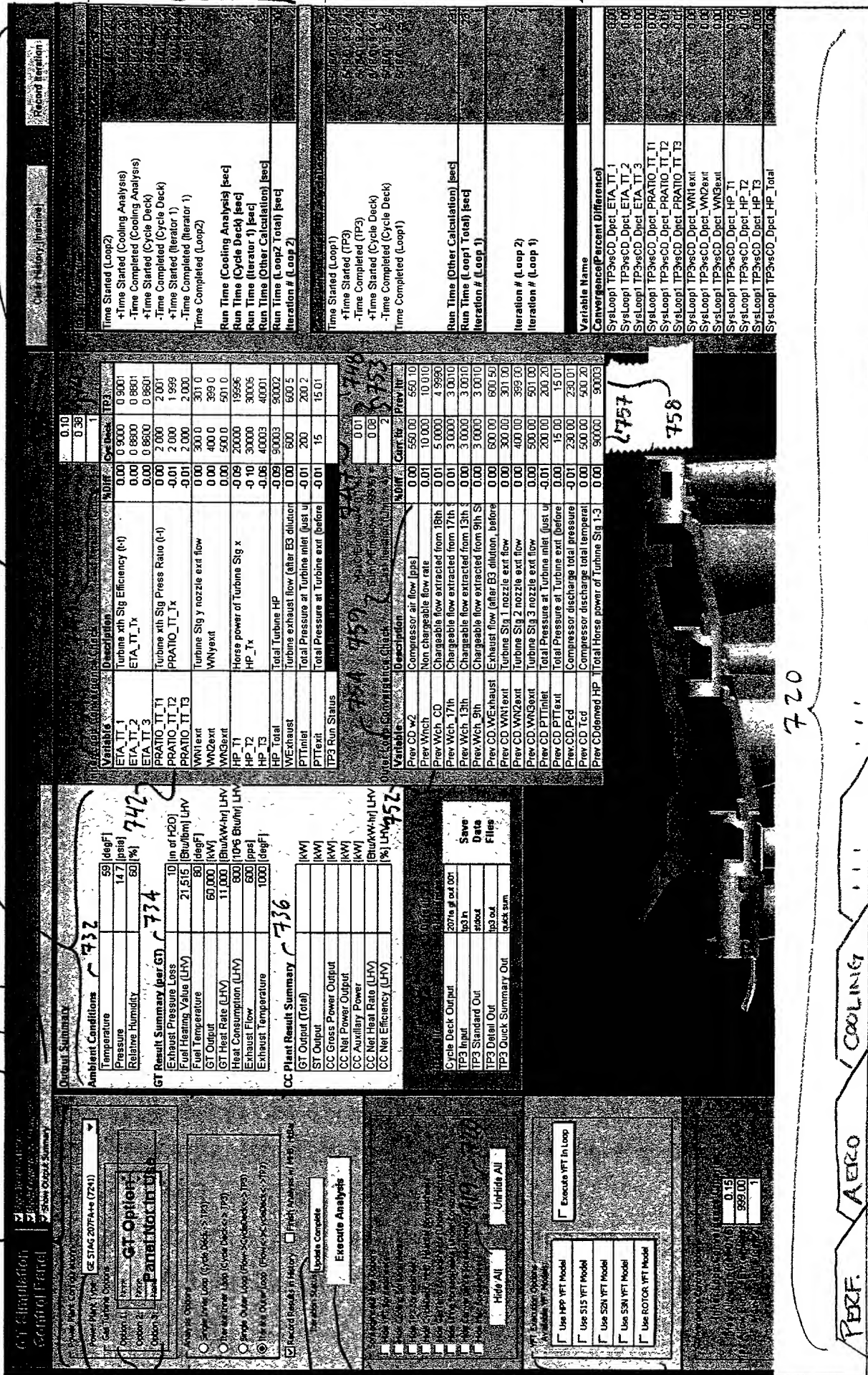


FIGURE 7

New Screen Print for PDF File: Figure #8

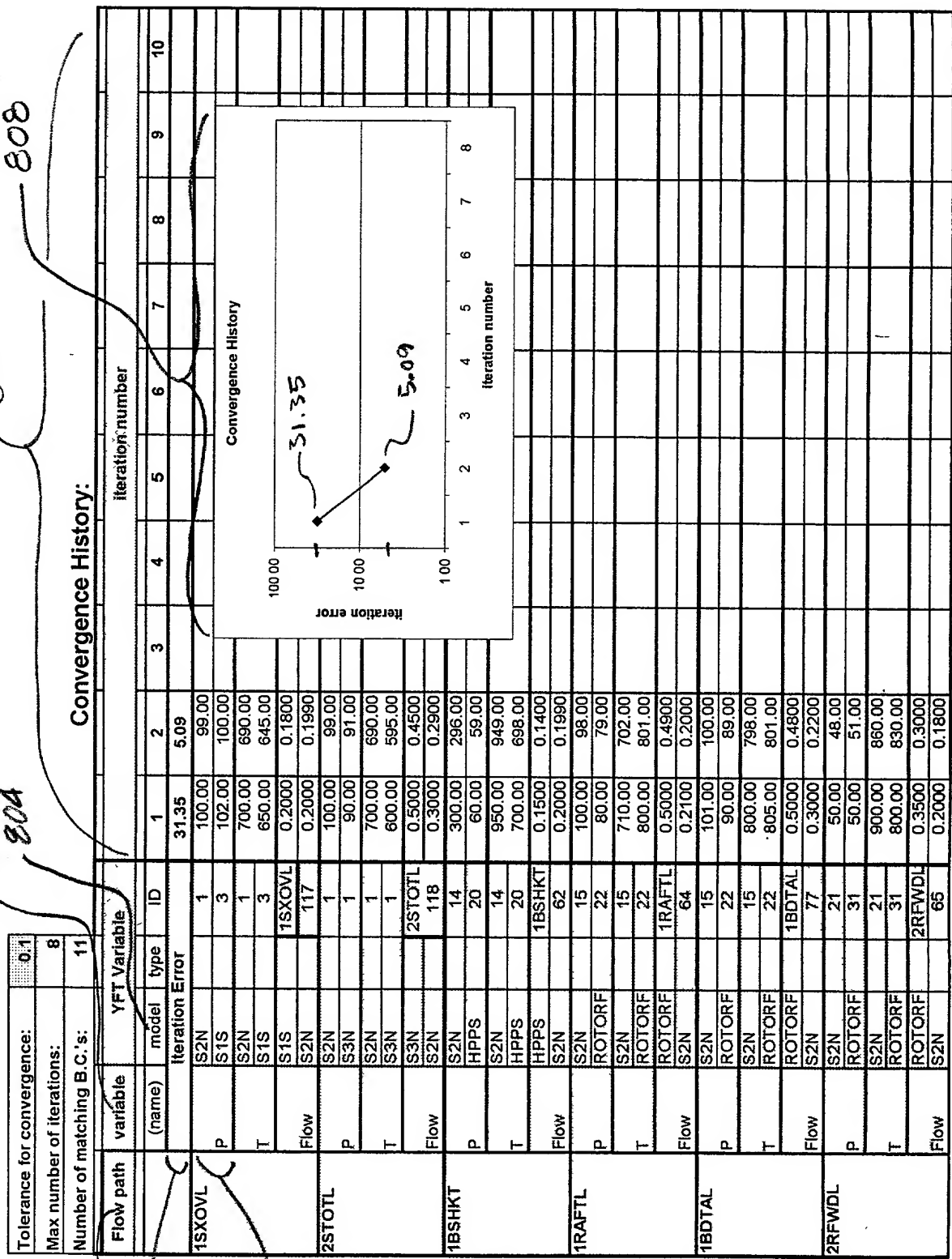


FIGURE 8

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